No.



9200205

### THE IER CONTINUED STRAYHES OF ANY IERICAL

TO ALL TO WHOM THESE PRESENTS SHALL COME:

# Incob Hartz Seed Company, Inc.

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### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF CIGATEON YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC D OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXOTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR EXPORTING IT, OR SUBJECT OF THE PLANT VARIETY PROTECTION ACT AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'H507'

In Lestimony Watercot, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 31st day of October in the year of our Lord one thousand nine hundred and ninety-four.

Au.

Kenneth H Evan

Plant Variety Protection Office Agricultural Marketing Service Nike EST Socretary of Agriculture Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other espect of this collection of information, including suggestions for reducing this burden, to Department of Apricatives, Clearance Office, ORM, Boom 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Papermork Reduction Project (OMB #0581-0055); Washington, 20250.

\*\*CORM APPROVED: OMB 6581-0055, Expires 1/31/91

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE    ANALYSIS   STATE   SEED CO., INC.	U.S. DEPARTMENT AGRICULTURAL MA	OF AGRICULTURE RIKETING SERVICE		Applic	ation is required in order
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F.O. BOX 946  STUTTGART, AR 72160  STUTTGART, AR 72			EXPERIMENTAL NO.	H.: ``	
STUTTGART, AR 72160  (501) 673-8565  POOD OF THE PROPERTY HAME CONTROL OF	P. O. BOX: 946	1-	5. PHONE (Include area code)		OR OFFICIAL USE ONLY
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SOYDEAN  10. IF THE APPLICANT IMMEDIE INDIA TERSON, GIVE FORM OF ORIGINALATION (Corporation, partnership, association, alc.)  CORPORATION  11. FENCINCHARTE, GIVE ETATE OF INCIDENCIATION  DELAWARE  12. DATE OF INCOMPONATION  13. MARE AND ADDRESS OF APPLICANT REPRESENTATIVES, IF AIN, TO SERVE IN THE APPLICATION AND RECEIVE ALL PAPERS  DR. CURPITS WILLITAMS  JACOB HARTZ SEED CO., INC.  P.O. BOX 946  STUTTGART AR 72160  PHONE Enclude was code:  501-673-8565  14. CHECK APPROPRIATE BOY FOR EACH ATLAGMENT SUBMITTED FROM INSTRUCTIONS on reversal  Exhabit a, Honority Statement.  Exhabit C, Objection Description of Variety.  Exhabit C, Objection Description of Variety.  Exhabit C, Objection Description of Variety.  The Control of Applicantists of Exp. 150 and Experimental For Form Variety Protection Office  Friend and Experimental For Eq. 150, making papels to Treasurer of the United States.  15. DOSS THE APPLICANTIS SPECELY THAT SEED OF THE VARIETY SE SOLD BY WARRETY MAKE DEAY A A LASS OF CERTIFICS SECO! Give a sackine Bills of the Plant Variety Protection Office  FOR THE APPLICANTIST SPECELY THAT SEED OF THE VARIETY SE SOLD BY WARRETY MAKE DEAY A A LASS OF CERTIFICS SECO! Give a sackine Bills of the Plant Variety Protection Office The APPLICANTIST SPECELY THAT SEED OF THE VARIETY SE SOLD BY WARRETY MAKE DEAY A A LASS OF CERTIFICS SECO! Give a sackine Bills of the Plant Variety Protection Office The APPLICANTIST SPECELY THAT SEED OF THE VARIETY SE SOLD BY WARRETY MAKE DEAY AS A LASS OF CERTIFICS SECO! Give a sackine Bills of the Plant Variety Protection As Control of the Variety Will be furnished with the application and will be replemished upon request in accordance with such regulations as may be applicable.  The undersigned applicantists is (are 17 the Warrety Pr		LĘGUMINO	ŞEA		LAM DE
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9. AT THIS and Examination Fee (32,150) made payable to "Treasurer of the United States."  15. DOES THE APPLICANTISS SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY MAJE ONLY AS A CLASS OF CERTIFIED SEED? (See section 83/a) of the Plant Variety Protection Act.  16. DOES THE APPLICANTISS SPECIFY THAT THIS VARIETY BE LIMITED AS TO 17. F TES' TO TIEM 15, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  17. F TES' TO TIEM 15, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?  18. DID THE APPLICANTISS PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.?  19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?  20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act. Applicant(s) is tare) informed that (alse representation herein can jeopardize protection and result in penalties.  SIGNATURE OF APPLICANT (Owner(s))  CAPACITY OR TITLE  Director of APPLICANT (Owner(s))  CAPACITY OR TITLE  Director of APPLICANT (Owner(s))  CAPACITY OR TITLE  CAPACITY	P.O. BOX 946 STUTTGART, AR 721-60  14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED of  a. X. Exhibit A. Origin and Breeding History of the Variety  b. X. Exhibit B. Novelty Statement.  c. X. Exhibit C. Objective Description of Variety.  d. Ghibit C. Additional Description of Variety.  e. X. Exhibit E. Statement of the Basis of Applicant's Owner.	offow INSTRUCTIONS on rever ship.	24)	-	01-673-8565
YES OF TES." ANSWER HOME 16 and 17 below)   SILE MANUAL 1975   SILE	9 [A] Filing and Examination Fee (\$2,150) made payable to	Treasurer of the United St	ates."		
THE APPLICANT(S) PREVIOUSLY FRE FOR PROTECTION OF THE VARIETY IN THE U.S.?    YES	YES (N "YES," answer items 16 and 17	below) DILS 7	10001777 T	(See section 83	Ka) of the Plant Variety
16. DID THE APPLICANT(S) PREVIOUSLY FRE FOR PROTECTION OF THE VARIETY IN THE U.S.?    YES M "YES." SWOUGH   Plant Variety Protection Act   Patent Act. Give date   1   WAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?   YES (II "YES," give names of countries and dates)   WO	MUMBER OF GENERATIONS?	S TO 17. IF "YES" TO	TEM 16, WHICH CLASSES OF PRO	OUCTION BEYO	NO BREEDER SEED?
YES M YES M YES SHOUGH   Plant Variety Protection Act   Patent Act. Give date   1   YES NO   Patent Act. Give date   1   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO   YES, give names of countries and dates)   YES NO			NDATION REG	ISTERED	CERTIFIED
The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upor request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF APPLICANT (Owner(s))  CAPACITY OR TITLE  Director and Chief Scientin Date  SIGNATURE OF APPLICANT (Owner(s))	YES M "YES." Myough Plant Variety Protection Act		ı 1	•	
The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upor request in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF APPLICANT (Owner(s))  CAPACITY OR TITLE  Director and Chief Scientin Date  SIGNATURE OF APPLICANT (Owner(s))	19 HAS THE VARIETY REEN DELEASED USED OFFICE STATE				* :
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The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.  Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.  SIGNATURE OF APPLICANT (Owner(s))  CAPACITY OR TITLE  Director and Chief Scientist  G-29-92  SIGNATURE OF APPLICANT (Owner(s))	20 The applicant(s) declare(s) that a viable sample of basic s request in accordance with such regulations as may be accordance.	eeds of this variety will	be furnished with the applica	tion and will	be replenished upon
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SIGNATURE OF APPLICANT 10-mores (SI) CAPACITY OR YILL	SIGNATURE OF APPLICANT (Owner(s))			dis DATE	1
Į VAIE		CAPACITY OR Y	ing Soybeans and lotte	DATE	1-29-92

### EXHIBIT A ORIGIN AND BREEDING HISTORY

#### H507

SUMMER 1983 ORIGINAL CROSS MADE AT STUTTGART, ARKANSAS.
CROSS NUMBER WAS 83059

PARENTS = HARTZ 930 X (F1 H78-4722 X H78-B1)

HARTZ 930 = H-24 X MACK

H-24 = D65-3065 X D65-2553 D65-3065 = HILL X PI 171.442 D65-2553 = PI 196.177 X (2) HILL

H78-4722 = H-24 X MACK H78-B1 = H-24 X LEE 74

WINTER 1983-84 F1 ADVANCED TO F2 IN GREENHOUSE AT STUTTGART, AR.

SUMMER 1984 F2 ADVANCED TO F3 BY MODIFIED SINGLE SEED DESCENT AT STUTTGART, AR.

WINTER 1984-85 F3 AND F4 ADVANCED TO F5 BY MODIFIED SINGLE SEED DESCENT IN BELIZE, C.A.

SUMMER 1985 F5 GROWN AT STUTTGART, AR.

SUMMER 1986 F6 GROWN AT STUTTGART, AR., IN PLANT ROWS, SELECTED ROW DESIGNATED 5403.

SUMMER 1987-91 YIELD TESTED AND SCREENED FOR DISEASE AND NEMATODES, STUTTGART, AR.

SUMMER 1989 F9 GREW 20 ACRE INCREASE AT STUTTGART, AR.

SUMMER 1990 GREW BREEDER SEED INCREASE, STUTTGART, AR.

SUMMER 1991 SEED GROWN BY CONTRACT GROWERS ONLY.

EVIDENCE OF STABILITY - H507 is stable and uniform within commercially acceptable limits as indicated by observation of four years of disease screening trials, yield tests and seed increase plots.

KINDS OF VARIANTS - Purple flowering plants with gray pubescence occur at a frequency of about 4 seed per pound. Purple flowering plants with brown pubescence and white flowering plants with brown pubescence each occur in a frequency of about 2 seeds per pound. The brown pubescent plants produce black hila seed.

### EXHIBIT B

### NOVELTY STATEMENT

'H507' most closely resembles 'Hartz 930.

Differences include:

Hartz 930 has dull seed coats and is resistant to Phytophthora root rot race 3 while H507 has shinny seed coats and is susceptible to phytophthora root rot race 3.

## U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE

### PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

EXHIBIT C (Soybean)

### **OBJECTIVE DESCRIPTION OF VARIETY** SOYBEAN (Glycine max L.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME	
JACOB HARTZ SEED CO., INC. CURTIS WILLIAMS	Н86-5403	Н507	en de la companya de
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code	;/	FOR OFFI	CIAL USE ONLY
P.O. BOX 946 STUTTGART , AR 72160		PVPO NUMBER	
		9200	205
Choose the appropriate response which characterizes the vari	icty in the features described b	clow. When the nu	nber of significant digit
in your answer is fewer than the number of boxes provided,	place a zero in the first box wi	en number is 9 or k	ss (c.g., 0 9 ).
Starred characters * are considered fundamental to an adeque when information is available.	ate soybean variety description	n. Other characters	should be described
1 CEED CHADE.		·	<del></del>
			:
[2]  L   W	Т		
1 = Spherical (L/W, L/T, and T/W ratios = < 1.2) 3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)	2 = Spherical Flattened (L 4 = Elongate Flattened (L		
	•		
★ 2. SEED COAT COLOR: (Mature Seed)	•		
1 = Yellow 2 = Green 3 = Brown	4 = Black , 5 = Other (S	pecify)	
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)			· · ·
2 1 = Dull ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebsoy	'; 'Gasoy 17')		
★ 4. SEED SIZE: (Mature Seed)	****		
0 8 Grams per 100 seeds			
5. HILUM COLOR: (Mature Seed)		***************************************	······································
1 = Buff 2 = Yellow 3 = Brown 4 =	= Gray 5 = Imperfect Black	6 = Black	7 = Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		<del></del>	
1 = Yellow 2 = Green			
7. SEED PROTEIN PEROXIDASE ACTIVITY:			
1 = Low 2 = High			
8. SEED PROTEIN ELECTROPHORETIC BAND:			
0 1 = Type A (SP1 <sup>a</sup> ) 2 = Type B (SP1 <sup>b</sup> )			
9. HYPOCOTYL COLOR:			
	- '		
1 = Green only ('Evans'; 'Davis') 2 = Green with b 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')			
4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Co	oker Hampton 266A*I		
C10. LEAFLET SHAPE:		····	
3 1 = Lanceolate 2 = Oval 3 = Ovate	4 - 000 - 40 - 41		
3 = Ovate	4 = Other (Specify)	<u> </u>	A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

FORM LMGS-470-57 (6-83)

(Edition of 7-87 is obsolere)

11. LEAFLET SIZE:	<del></del>		7200203
1 = Small ('Amsoy 71'; 'A5312') 3 = Large ('Crawford'; 'Tracy')	2 = Medium ('Corsoy	y 79'; 'Gasoy 17')	s de la companya de l
12. LEAF COLOR:			4.76
1 = Light Green ('Weber'; 'York') 3 = Dark Green ('Gnome'; 'Tracy')	2 ≈ Medium Green (*	Corsoy 79': 'Braxton')	
★ 13. FLOWER COLOR:			·
1 = White 2= Purple	3 = White with purple the	roat	
★ 14. POD COLOR:			
1 = Tan 2 = Brown 3	3 = Black		
15. PLANT PUBESCENCE COLOR:			
1 = Gray 2 = Brown (Tawny)			
16. PLANT TYPES:			
1 = Slender ('Essex'; 'Amsoy 71') 3 = Bushy ('Gnome'; 'Govan')	2 = Intermediate ('Am	cor'; 'Braxton')	en e
77. PLANT HABIT:			
1 = Determinate ('Gnome'; 'Braxton') 3 = Indeterminate ('Nebsoy'; 'Improved Pelican') 18. MATURITY GROUP:	. 2 = Semi-Determinate ( n')	(Will')	
is. MATURITY GROUP:		17 <b>48</b> 1981 9	
0 8 1 = 000 2 = 00 3 = 0 9 = VI 10 = VII 11 = VIII	4=I 5=II 12=IX 13=X		= V
		and the second	
19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susce	eptible; 2 = Resistant)		
BACTERIAL DISEASES:			
Bacterial Pustule (Xanthomonas phaseoli var. soj	jensis)		
Bacterial Blight (Pseudomonas glycinea)		and the second s	
Wildfire (Pseudomonas tabaci)			
FUNGAL DISEASES:		그는 사람들이 경기를 받는다. 그는 사람들이 바람들이 되었다.	
<b>.</b> []			
Brown Spot (Septoria glycines)			
Frogeye Leaf Spot (Cercospora sojina)			
Race 1 Race 2 Race 3	Race 4	Race 5 Other (Special	fvl
0 Target Spot (Corynespora cassiicola)		MODERAT	E RESISTANT
Downy Mildew (Peronospora trifoliorum var. man	nebusioni	RACE NO	T DETERMINED
Powdery Mildew (Microsphaera diffusa)	isinurica)		Salah Sa
Brown Stem Rot (Cephalosporium gregatum)		Apparent of the second of the	

19. DISEASE RI	EACTION: (Enter 0 = Not Tested; 1 = Susceptible;	2 = Resistant) (Continued)					
· ·	DISEASES: (Continued)		ere e e e e e e e e e e e e e e e e e e	9200205			
* [0] Pod	and Stem Blight (Diaporthe phaseolorum var; sojae	in the second					
O Pur	ole Seed Stain (Cercospora kikuchii)			Victoria de la companya della companya della companya de la companya de la companya della compan			
0 Rhiz	toctonia Root Rot (Rhizoctonia solani)						
Phyt	ophthora Rot (Phytophthora megasperma var. sojat	:					
★ 1 Race	Race 2 1 Race 3	Race 4 Rac	æ 5 Race 6	2			
Race	8 Race 9 1 Other (Specify)	RACE 12 RA	CE 16	Race 7			
VIRAL DIS	EASES:						
0 Bud I	Blight (Tobacco Ringspot Virus)		en in de la companya	X .			
0 Yello	w Mosaic (Bean Yellow Mosaic Virus)						
★ 🔲 Cowp	ea Mosaic (Cowpea Chlorotic Virus)						
	fottle (Bean Pod Mottle Virus)						
,	Mottle (Soybean Mosaic Virus)						
and the first of the second	DISEASES:						
Soybe	an Cyst Nematode (Heterodera glycines)						
★ Race 1		Race 4	RACE 9	RACE 14			
0 Lance	Nematode (Hoplolaimus Colombus)	Other	(Specify)				
. —	rn Root Knot Nematode (Meloidogyne incognita)						
. —	Northern Root Knot Nematode (Meloidogyne Hapla)						
	Root Knot Nematode (Meloidogyne arenaria)						
=	m Nematode (Rotylenchulus reniformis)						
=	M .  R DISEASE NOT ON FORM (Specify):	javanica					
			· · · · · · · · · · · · · · · · · · ·				
20. PHYSIOLOGICA	AL RESPONSES: (Enter 0 = Not Tested; 1 = Susce	otible; 2 = Resistant)					
<b>-</b>	lorosis on Calcareous Soil						
Other (Specify)							
21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)							
Mexican Bean Beetle (Epilachna varivestis)							
Potato Leaf Hopper (Empoasca fabae)							
O Other (Specify)							
22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.							
CHARACTER	NAME OF VARIETY	-	T				
Plant Shape	or vallett	CHARACTER Seed Const.	NAME OF \	/ARIETY			
Leaf Shape		Seed Coat Luster Seed Size					
Leaf Color		Seed Shape					
Leaf Size		Seedling Pigmentation					
		2 3		w.			
ORM LMGS-470.57 (6	021						

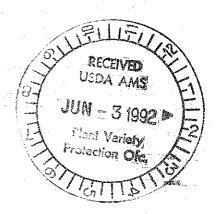
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### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Date

	<del></del>	WARREST : Faired Comparison Data							
	NO. OF DAYS MATURITY	LODGING	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT:**		SEED SIZE	NO.
				CM Width	CM Length	X Protein	× oii		SEEDS/
H507	<b>\</b>				71.				700
Submitted	130	1.9	66			45.2	20.9		
HUTCHESON Name of Similar Variety	126	1.0	56			43.0	23.2	8.3 15.9	2 <del>-3</del> 2 <del>-3</del>
PUDLICATIO	MARC PROFESSION		1			<u> </u>	<u> </u>		

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron, Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A2 in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.
- \* Protein and oil determined on a TREBOR-99 COMPOSITION ANALYZER. PROTEIN VALUES ON THIS INSTRUMENT ARE HIGHER FOR COMMERCIALLY GROWN MATURITY GROUP V-VIII SOYBEAN VARIETIES THAN GENERALLY REPORTED ELSEWHERE.



#### EXHIBIT E

#### H507

#### BASIS OF APPLICANTS OWNERSHIP

Jacob Hartz Seed Company, Incorporated, Stuttgart, Arkansas established a Plant Breeding Program in 1972 for the purpose of developing, releasing, and maintaining stocks of soybean varieties developed by its Plant Breeding Program.

Dr. Curtis Williams, Plant Breeder, was licensed to breed soybeans by the Arkansas State Plant Board, December 9, 1977. Dr. Williams and co-workers developed and tested this variety in trials at Stuttgart, Arkansas, and outlying locations.

On April 23, 1983, Jacob Hartz Seed Company, Inc., was purchased by ybriTech Seed International, Inc., a wholly owned subsidiary of Monsanto, St. Louis, Missouri. Jacob Hartz Seed Company, Inc., was originally incorporated in 1948 in the state of Arkansas. In 1984 Jacob Hartz Seed Company, Inc., merged with the Monsanto-West Africa., Inc., a Delaware Corporation. Jacob Hartz Seed Company, Inc., is the present name of the merged corporation which is a Delaware corporation.

Dr. Curtis Williams is employed by Jacob Hartz Seed Company, Inc. By agreement between employee and Jacob Hartz Seed Company, Inc., all rights to any discovery, development or invention made by an employee are assigned to the company. No rights to the development of this variety are retained by the employee.